

ABSTRACT

The wet-gas desulfurizing apparatus according to this invention removes the oxides of sulfur, such as SO<sub>2</sub>, from combustion exhaust gas by scrubbing the combustion exhaust gas with an absorption liquid which contains an alkali. It includes: 1) a branch pipe to circulate the absorption liquid which is inserted into a collection tank, of which the end discharges the absorption liquid into the collection tank, and the branch pipe having an internal diameter of D; and 2) an air-blown pipe to inject air into the branch pipe, of which the end is inserted at an insertion point located between 3D and 10D from the discharge end of the branch pipe. The end of the air-blown pipe is inserted into the branch pipe, and has an appearance of a semicircular trough facing downstream toward the collection tank. As an alternative, an orifice is provided in the branch pipe, upstream from the insertion point where the air-blown pipe is inserted into the branch pipe, and the insertion point is disposed in the region of negative pressure created by the orifice.